1633

RAW SEQUENCE LISTING DATE: 01/23/2001
PATENT APPLICATION: US/09/556,246 TIME: 13:09:18

Input Set : A:\Rih26cip.app
Output Set: N:\CRF3\01232001\I556246.raw

3 <110> APPLICANT: Gregory D. Jay
5 <120> TITLE OF INVENTION: tribonectins
7 <130> FILE REFERENCE: 21486-026cip
C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/556,246
10 <141> CURRENT FILING DATE: 2000-04-24
12 <150> PRIOR APPLICATION NUMBER: USSN 09/298/970
13 <151> PRIOR FILING DATE: 1999-04-23
15 <160> NUMBER OF SEQ ID NOS: 34
17 <170> SOFTWARE: PatentIn Ver. 2.0
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 1404
21 <212> TYPE: PRT
22 <213> ORGANISM: Homo sapiens
24 <400> SEQUENCE: 1

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29             20                  25                  30
31 Arg Cys Gly Glu Gly Tyr Ser Arg Asp Ala Thr Cys Asn Cys Asp Tyr
32         35                  40                  45
34 Asn Cys Gln His Tyr Met Glu Cys Cys Pro Asp Phe Lys Arg Val Cys
35     50                  55                  60
37 Thr Ala Glu Leu Ser Cys Lys Gly Arg Cys Phe Glu Ser Phe Glu Arg
38 65                  70                  75                  80
40 Gly Arg Glu Cys Asp Cys Asp Ala Gln Cys Lys Lys Tyr Asp Lys Cys
41                 85                  90                  95
43 Cys Pro Asp Tyr Glu Ser Phe Cys Ala Glu Val His Asn Pro Thr Ser
44             100                 105                 110
46 Pro Pro Ser Ser Lys Lys Ala Pro Pro Pro Ser Gly Ala Ser Gln Thr
47         115                 120                 125
49 Ile Lys Ser Thr Thr Lys Arg Ser Pro Lys Pro Pro Asn Lys Lys Lys
50     130                 135                 140
52 Thr Lys Lys Val Ile Glu Ser Glu Glu Ile Thr Glu Glu His Ser Val
53 145                 150                 155                 160
55 Ser Glu Asn Gln Glu Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser
56                 165                 170                 175
58 Ser Thr Ile Trp Lys Ile Lys Ser Ser Lys Asn Ser Ala Ala Asn Arg
59             180                 185                 190
61 Glu Leu Gln Lys Lys Leu Lys Val Lys Asp Asn Lys Lys Asn Arg Thr
62         195                 200                 205
64 Lys Lys Lys Pro Thr Pro Lys Pro Pro Val Val Asp Glu Ala Gly Ser
65     210                 215                 220
67 Gly Leu Asp Asn Gly Asp Phe Lys Val Thr Thr Pro Asp Thr Ser Thr
68 225                 230                 235                 240
70 Thr Gln His Asn Lys Val Ser Thr Ser Pro Lys Ile Thr Thr Ala Lys
71                 245                 250                 255
73 Pro Ile Asn Pro Arg Pro Ser Leu Pro Pro Asn Ser Asp Thr Ser Lys
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74              260                 265                 270
76 Glu Thr Ser Leu Thr Val Asn Lys Glu Thr Thr Val Glu Thr Lys Glu
77          275                 280                 285
79 Thr Thr Thr Thr Asn Lys Gln Thr Ser Thr Asp Gly Lys Glu Lys Thr
80      290                 295                 300
82 Thr Ser Ala Lys Glu Thr Gln Ser Ile Glu Lys Thr Ser Ala Lys Asp
83 305                 310                 315                 320
85 Leu Ala Pro Thr Ser Lys Val Leu Ala Lys Pro Thr Pro Lys Ala Glu
86                  325                 330                 335
88 Thr Thr Thr Lys Gly Pro Ala Leu Thr Thr Pro Lys Glu Pro Thr Pro
89              340                 345                 350
91 Thr Thr Pro Lys Glu Pro Ala Ser Thr Thr Pro Lys Glu Pro Thr Pro
92          355                 360                 365
94 Thr Thr Ile Lys Ser Ala Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr
95      370                 375                 380
97 Thr Thr Lys Ser Ala Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr Thr
98 385                 390                 395                 400
100 Thr Lys Glu Pro Ala Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr Thr
101                 405                 410                 415
103 Thr Lys Glu Pro Ala Pro Thr Thr Thr Lys Ser Ala Pro Thr Thr Pro
104             420                 425                 430
106 Lys Glu Pro Ala Pro Thr Thr Pro Lys Lys Pro Ala Pro Thr Thr Pro
107         435                 440                 445
109 Lys Glu Pro Ala Pro Thr Thr Pro Lys Glu Pro Thr Pro Thr Thr Pro
110     450                 455                 460
112 Lys Glu Pro Ala Pro Thr Thr Lys Glu Pro Ala Pro Thr Thr Pro Lys
113 465                 470                 475                 480
115 Glu Pro Ala Pro Thr Ala Pro Lys Lys Pro Ala Pro Thr Thr Pro Lys
116                 485                 490                 495
118 Glu Pro Ala Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr Thr Thr Lys
119             500                 505                 510
121 Glu Pro Ser Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr Thr Thr Lys
122         515                 520                 525
124 Ser Ala Pro Thr Thr Thr Lys Glu Pro Ala Pro Thr Thr Thr Lys Ser
125     530                 535                 540
127 Ala Pro Thr Thr Pro Lys Glu Pro Ser Pro Thr Thr Thr Lys Glu Pro
128 545                 550                 555                 560
130 Ala Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr Thr Pro Lys Lys Pro
131                 565                 570                 575
133 Ala Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr Thr Pro Lys Glu Pro
134             580                 585                 590
136 Ala Pro Thr Thr Thr Lys Lys Pro Ala Pro Thr Ala Pro Lys Glu Pro
137         595                 600                 605
139 Ala Pro Thr Thr Pro Lys Glu Thr Ala Pro Thr Thr Pro Lys Lys Leu
140     610                 615                 620
142 Thr Pro Thr Thr Pro Glu Lys Leu Ala Pro Thr Thr Pro Glu Lys Pro
143 625                 630                 635                 640
145 Ala Pro Thr Thr Pro Glu Glu Leu Ala Pro Thr Thr Pro Glu Glu Pro
146                 645                 650                 655
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148 Thr Pro Thr Thr Pro Glu Glu Pro Ala Pro Thr Thr Pro Lys Ala Ala
149             660                 665                 670
151 Ala Pro Asn Thr Pro Lys Glu Pro Ala Pro Thr Thr Pro Lys Glu Pro
152         675                 680                 685
154 Ala Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr Thr Pro Lys Glu Thr
155     690                 695                 700
157 Ala Pro Thr Thr Pro Lys Gly Thr Ala Pro Thr Thr Leu Lys Glu Pro
158 705                 710                 715                 720
160 Ala Pro Thr Thr Pro Lys Lys Pro Ala Pro Lys Glu Leu Ala Pro Thr
161                 725                 730                 735
163 Thr Thr Lys Glu Pro Thr Ser Thr Thr Ser Asp Lys Pro Ala Pro Thr
164             740                 745                 750
166 Thr Pro Lys Gly Thr Ala Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr
167         755                 760                 765
169 Thr Pro Lys Glu Pro Ala Pro Thr Thr Pro Lys Gly Thr Ala Pro Thr
170     770                 775                 780
172 Thr Leu Lys Glu Pro Ala Pro Thr Thr Pro Lys Lys Pro Ala Pro Lys
173 785                 790                 795                 800
175 Glu Leu Ala Pro Thr Thr Thr Lys Gly Pro Thr Ser Thr Thr Ser Asp
176                 805                 810                 815
178 Lys Pro Ala Pro Thr Thr Pro Lys Glu Thr Ala Pro Thr Thr Pro Lys
179             820                 825                 830
181 Glu Pro Ala Pro Thr Thr Pro Lys Lys Pro Ala Pro Thr Thr Pro Glu
182         835                 840                 845
184 Thr Pro Pro Pro Thr Thr Ser Glu Val Ser Thr Pro Thr Thr Thr Lys
185     850                 855                 860
187 Glu Pro Thr Thr Ile His Lys Ser Pro Asp Glu Ser Thr Pro Glu Leu
188 865                 870                 875                 880
190 Ser Ala Glu Pro Thr Pro Lys Ala Leu Glu Asn Ser Pro Lys Glu Pro
191                 885                 890                 895
193 Gly Val Pro Thr Thr Lys Thr Pro Ala Ala Thr Lys Pro Glu Met Thr
194             900                 905                 910
196 Thr Thr Ala Lys Asp Lys Thr Thr Glu Arg Asp Leu Arg Thr Thr Pro
197         915                 920                 925
199 Glu Thr Thr Thr Ala Ala Pro Lys Met Thr Lys Glu Thr Ala Thr Thr
200     930                 935                 940
202 Thr Glu Lys Thr Thr Glu Ser Lys Ile Thr Ala Thr Thr Thr Gln Val
203 945                 950                 955                 960
205 Thr Ser Thr Thr Thr Thr Gln Asp Thr Thr Pro Phe Lys Ile Thr Thr Leu
206                 965                 970                 975
208 Lys Thr Thr Thr Leu Ala Pro Lys Val Thr Thr Thr Lys Lys Thr Ile
209             980                 985                 990
211 Thr Thr Thr Glu Ile Met Asn Lys Pro Glu Glu Thr Ala Lys Pro Lys
212         995                1000                1005
214 Asp Arg Ala Thr Asn Ser Lys Ala Thr Thr Pro Lys Pro Gln Lys Pro
215    1010                1015                1020
217 Thr Lys Ala Pro Lys Lys Pro Thr Ser Thr Lys Lys Pro Lys Thr Met
218 1025                1030                1035                1040
220 Pro Arg Val Arg Lys Pro Lys Thr Thr Pro Thr Pro Arg Lys Met Thr
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221                1045                1050                1055
223 Ser Thr Met Pro Glu Leu Asn Pro Thr Ser Arg Ile Ala Glu Ala Met
224            1060                1065                1070
226 Leu Gln Thr Thr Thr Arg Pro Asn Gln Thr Pro Asn Ser Lys Leu Val
227        1075                1080                1085
229 Glu Val Asn Pro Lys Ser Glu Asp Ala Gly Gly Ala Glu Gly Glu Thr
230    1090                1095                1100
232 Pro His Met Leu Leu Arg Pro His Val Phe Met Pro Glu Val Thr Pro
233 1105                1110                1115                1120
235 Asp Met Asp Tyr Leu Pro Arg Val Pro Asn Gln Gly Ile Ile Ile Asn
236                1125                1130                1135
238 Pro Met Leu Ser Asp Glu Thr Asn Ile Cys Asn Gly Lys Pro Val Asp
239            1140                1145                1150
241 Gly Leu Thr Thr Leu Arg Asn Gly Thr Leu Val Ala Phe Arg Gly His
242        1155                1160                1165
244 Tyr Phe Trp Met Leu Ser Pro Phe Ser Pro Pro Ser Pro Ala Arg Arg
245    1170                1175                1180
247 Ile Thr Glu Val Trp Gly Ile Pro Ser Pro Ile Asp Thr Val Phe Thr
248 1185                1190                1195                1200
250 Arg Cys Asn Cys Glu Gly Lys Thr Phe Phe Phe Lys Asp Ser Gln Tyr
251                1205                1210                1215
253 Trp Arg Phe Thr Asn Asp Ile Lys Asp Ala Gly Tyr Pro Lys Pro Ile
254            1220                1225                1230
256 Phe Lys Gly Phe Gly Gly Leu Thr Gly Gln Ile Val Ala Ala Leu Ser
257        1235                1240                1245
259 Thr Ala Lys Tyr Lys Asn Trp Pro Glu Ser Val Tyr Phe Phe Lys Arg
260    1250                1255                1260
262 Gly Gly Ser Ile Gln Gln Tyr Ile Tyr Lys Gln Glu Pro Val Gln Lys
263 1265                1270                1275                1280
265 Cys Pro Gly Arg Arg Pro Ala Leu Asn Tyr Pro Val Tyr Gly Glu Met
266                1285                1290                1295
268 Thr Gln Val Arg Arg Arg Arg Phe Glu Arg Ala Ile Gly Pro Ser Gln
269            1300                1305                1310
271 Thr His Thr Ile Arg Ile Gln Tyr Ser Pro Ala Arg Leu Ala Tyr Gln
272        1315                1320                1325
274 Asp Lys Gly Val Leu His Asn Glu Val Lys Val Ser Ile Leu Trp Arg
275    1330                1335                1340
277 Gly Leu Pro Asn Val Val Thr Ser Ala Ile Ser Leu Pro Asn Ile Arg
278 1345                1350                1355                1360
280 Lys Pro Asp Gly Tyr Asp Tyr Tyr Ala Phe Ser Lys Asp Gln Tyr Tyr
281                1365                1370                1375
283 Asn Ile Asp Val Pro Ser Arg Thr Ala Arg Ala Ile Thr Thr Arg Ser
284            1380                1385                1390
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287        1395                1400
290 <210> SEQ ID NO: 2
291 <211> LENGTH: 5041
292 <212> TYPE: DNA
293 <213> ORGANISM: Homo sapiens
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RAW SEQUENCE LISTING DATE: 01/23/2001
PATENT APPLICATION: US/09/556,246 TIME: 13:09:18

Input Set : A:\Rih26cip.app
Output Set: N:\CRF3\01232001\I556246.raw

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298 tgtgcaggga gatgtgggga agggtattct agagatgcca cctgcaactg tgattataac 180
299 tgtcaacact acatggagtg ctgccctgat ttcaagagag tctgcactgc ggagctttcc 240
300 tgtaaaggcc gctgctttga gtccttcgag agagggaggg agtgtgactg cgacgcccaa 300
301 tgtaagaagt atgacaagtg ctgtcccgat tatgagagtt tctgtgcaga agtgcataat 360
302 cccacatcac caccatcttc aaagaaagca cctccacctt caggagcatc tcaaaccatc 420
303 aaatcaacaa ccaaacgttc acccaaacca ccaaacaaga agaagactaa gaaagttata 480
304 gaatcagagg aaataacaga agaacattct gtttctgaaa atcaagagtc ctcctcctcc 540
305 tcctcctctt cctcttcttc ttcaacaatt tggaaaatca agtcttccaa aaattcagct 600
306 gctaatagag aattacagaa gaaactcaaa gtaaaagata acaagaagaa cagaactaaa 660
307 aagaaacCta cccccaaacc accagttgta gatgaagctg gaagtggatt ggacaatggt 720
308 gacttcaagg tcacaactcc tgacacgtct accacccaac acaataaagt cagcacatct 780
309 cccaagatca caacagcaaa accaataaat cccagaccca gtcttccacc taatttctgat 840
310 acatctaaag agacgtcttt gacagtgaat aaagagacaa cagttgaaac taaagaaact 900
311 actacaacaa ataaacagac ttcaactgat ggaaaagaga agactacttc cgctaaagag 960
312 acacaaagta tagagaaaac atctgctaaa gatttagcac ccacatctaa agtgctggct 1020
313 aaacctacac ccaaagctga aactacaacc aaaggccctg ctctcaccac tcccaaggag 1080
314 cccacgccca ccactcccaa ggagcctgca tctaccacac ccaaagagcc cacacctacc 1140
315 accatcaagt ctgcacccac cacccccaag gagcctgcac ccaccaccac caagtctgca 1200
316 cccaccactc ccaaggagcc tgcacccacc accaccaagg agcctgcacc caccactccc 1260
317 aaggagcctg cacccaccac caccaaggag cctgcaccca ccaccaccaa gtctgcaccc 1320
318 accactccca aggagcctgc acccaccacc cccaagaagc ctgccccaac tacccccaag 1380
319 gagcctgcac ccaccactcc caaggagcct acacccacca ctcccaagga gcctgcaccc 1440
320 accaccaagg agcctgcacc caccactccc aaagagcctg cacccactgc ccccaagaag 1500
321 cctgccccaa ctaccccaa ggagcctgca cccaccactc ccaaggagcc tgcacccacc 1560
322 accaccaagg agccttcacc caccactccc aaggagcctg cacccaccac caccaagtct 1620
323 gcacccacca ctaccaagga gcctgcaccc accactacca agtctgcacc caccactccc 1680
324 aaggagcctt cacccaccac caccaaggag cctgcaccca ccactcccaa ggagcctgca 1740
325 cccaccaccc ccaagaagcc tgccccaact acccccaagg agcctgcacc caccactccc 1800
326 aaggaacctg cacccaccac caccaagaag cctgcaccca ccgctcccaa agagcctgcc 1860
327 ccaactaccc ccaaggagac tgcacccacc acccccaaga agctcacgcc caccacccCc 1920
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342 gaaatgacta caacagctaa agacaagaca acagaaagag acttacgtac tacacctgaa 2820
343 actacaactg ctgcacctaa gatgacaaaa gagacagcaa ctacaacaga aaaaactacc 2880

FYI:

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY DATE: 01/23/2001
PATENT APPLICATION: US/09/556,246 TIME: 13:09:20

Input Set : A:\Rih26cip.app
Output Set: N:\CRF3\01232001\I556246.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number
L:412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4